EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 61249541
PUBLICATION DATE : 06-11-86

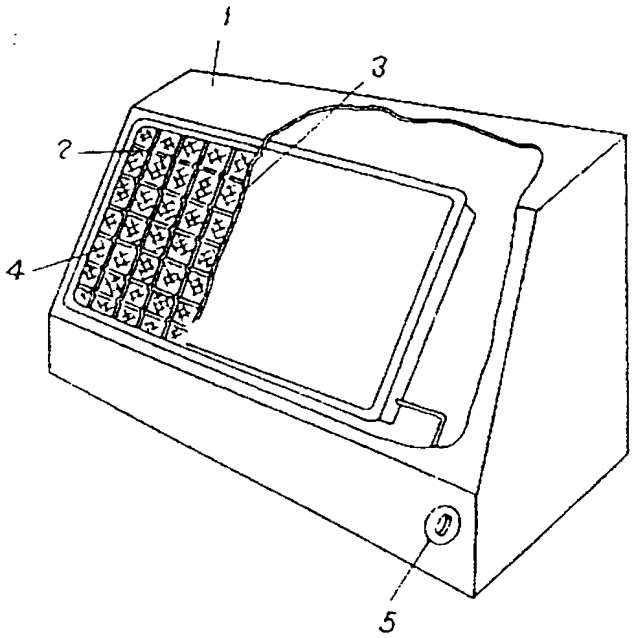
APPLICATION DATE : 26-04-85
APPLICATION NUMBER : 60090026

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : MATSUMOTO IKUO;

INT.CL. : B01J 23/74 B01D 53/36 B01J 37/08

TITLE : OXIDIZING CATALYST



ABSTRACT : PURPOSE: To obtain the oxidizing catalyst having a large surface area and superior activity for burning hydrocarbon, etc. by producing fine powder of composite oxide $CuCO_2O_4$ by the evaporation gas method by which plasma, arc, etc., are irradiated to the oxide mixed stoichiometrically.

CONSTITUTION: Copper oxide and cobalt oxide are stoichiometrically mixed and introduced put into a container, after reducing the pressure some of inert gas is introduced into it to carry out arc thermal spraying, and $CuCo_2O_4$ fine powder having a very large surface area of about 40~60m^2/g is obtained by the vapor phase method. In the utility example of natural gas to a catalyst burner, the gas is burned catalytically on the oxidizing catalyst where the above- mentioned catalyst powder is supported together with alumina nitrate on the sheet-like alumina fiber and the gas is completely decomposed into steam and carbonic acid gas and the heat generated at this time is utilized for a heating system.

COPYRIGHT: (C)1986,JPO&Japio